



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
-----------------	-------------	----------------------	---------------------	------------------

10/668,949

09/23/2003

Osman Ahmed

2003P14526US

3299

7590

09/22/2006

Siemens Corporation
Intellectual Property Department
170 Wood Avenue South
Iselin, NJ 08830

EXAMINER

ONI, OLUBUSOLA

ART UNIT

PAPER NUMBER

2168

DATE MAILED: 09/22/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No.	Applicant(s)	
	10/668,949	AHMED ET AL.	
	Examiner	Art Unit	
	OLUBUSOLA ONI	2168	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 23 September 2003.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-28 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-28 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____ |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

Detailed Action

Response to Amendment

1. The amendment filed June 26, 2006 has been entered. Claims 1, 5- 9, 15-23 and 28 have been amended. Claims 29-55 are withdrawn.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

3. Claims 1-3, 5-17 and 19-28 are rejected under 35 U.S.C. 102(b) as being anticipated by Gloudeman et al. (Patent No. 6,141, 595) hereinafter "Gloudeman".

For claim 1, Gloudeman teaches "a system for a building system application comprising: a database" (Col. 5, lines 10-19); "a data provider interface for converting between a common database access method and a database application programming interface (API)" (Col. 4, lines 58-Col. 5, lines 1-9); and "an application infrastructure, the infrastructure comprising: "a system design converter for converting application definition data into computer

Art Unit: 2168

statements for implementing control logic of application definition data" (Col. 4, lines 58-Col. 5, lines 1-9)"a computer tool interface coupled to the system design converter, the computer tool interface providing the system design converter with data from the database through the data provider interface" (Col. 4, lines 58-Col. 5, lines 9)

an external program module interface coupled to the system design converter, the external program module interface providing the system design converter with external program modules(Col. 3, lines 60- Col. 4, lines 11) and the system design converter includes data obtained through the computer tool interface and external program modules obtained through the external program module interface with the computer statements for implementing control logic of application definition data to generate a building system application" (Col. 3, lines 60-Col. 4, lines 11, Col. 4, lines 58-Col. 5, lines 1-9).

For claim 2, this claim is rejected on grounds corresponding to the argument give above for rejected claim 1 above. Gloudeman teaches "wherein the database is comprised of a plurality of databases" (Col.5, lines 10-19).

For claim 3, this claim is rejected on grounds corresponding to the argument give above for rejected claim 2 above. Gloudeman teaches "the database being comprised of a real-time database and a data mart" (Col. 5, 20-26, fig. 2).

Art Unit: 2168

For claim 5, this claim is rejected on grounds corresponding to the argument give above for rejected claim 1 above. Gloudeman teaches “external program module interface further comprising: common components for application support” (Col. 4, lines 25-57)

For claim 6, this claim is rejected on grounds corresponding to the argument give above for rejected claim 1 above. Gloudeman teaches “Web-based components for coupling the computer statement for implementing the control logic of the application definition data to another application over the Internet” (Col. 4, lines 12-24).

For claim 7, this claim is rejected on grounds corresponding to the argument give above for rejected claim 5 above. Gloudeman teaches “operating system communication components for coupling the computer statements for implementing the control logic of the application definition data to another application through an operating system” (Col. 4, lines 41-50).

For claim 8, this claim is rejected on grounds corresponding to the argument give above for rejected claim 7 above. Gloudeman teaches “wherein the operating system communication components communicated through a Windows operating system” (Col. 4, lines 12-24).

For claim 9, this claim is rejected on grounds corresponding to the argument give above for rejected claim 6 above. Gloudeman teaches “wherein the Web-based components

couple the computer statements for implementing the control logic of the application definition data to another application over the Internet through a customer web portal" (Col. 4, lines 12-24).

For claim 10, this claim is rejected on grounds corresponding to the argument give above for rejected claim 1 above. Gloudeman teaches "a configuration utility for developing a file structure representative of a building system and for associating configuration data with components identified in the file structure" (Col. 5, lines 27-34).

For claim 11, this claim is rejected on grounds corresponding to the argument give above for rejected claim 1 above. Gloudeman teaches "a data collector interface for coupling external data sources to the database" (Col. 4, lines 58-Col. 5, lines 1-9).

For claim 12, this claim is rejected on grounds corresponding to the argument give above for rejected claim 11 above. Gloudeman teaches "wherein the data collector interface converts data from the native format for an external data source to one that is compatible with the database structure" (Col. 4, lines 58-Col. 5, lines 1-9).

For claim 13, this claim is rejected on grounds corresponding to the argument give above for rejected claim 12 above. Gloudeman teaches "transaction services for generating instructions for the database API to store the converted data in the database" (Col. 4, lines 58-Col. 5, lines 9, Col.5, lines 39-60).

For claim 14, this claim is rejected on grounds corresponding to the argument give above for rejected claim 11 above. Gloudeman teaches "a scheduling service for activating the data collector interface to interrogate the external data sources for data to be stored in the database" (Col. 4, lines 58-Col. 5, lines 9, Col. 5, lines 39-61).

For claim 15, Gloudeman teaches " a method for supporting a building system application comprising: storing data in a database" (Col. 5, lines 10-19); and converting application definition data into computer statements for implementing control logic of application definition data"(Col. 4, lines 58-Col. 5, lines 9) converting between common database access method instructions in the computer statements and database application programming interface (API) instructions for the database so that the common database access method instructions may access the database (Col. 4, lines 58-Col. 5, lines 1-9) and using data obtained from the database with the computer statements and incorporating external program modules in the computer statements to generate building system applications" (Col. 3, lines 60-Col. 4, lines 11, Col. 4, lines 58-Col. 5, lines 1-9)

For claim 16, this claim is rejected on grounds corresponding to the argument give above for rejected claim 15 above. Gloudeman teaches "wherein the storing of data in the database includes storing the data in a plurality of databases within the database"(Col.5, lines 10-19).

For claim 17, this claim is rejected on grounds corresponding to the argument give above for rejected claim 15 above. Gloudeman teaches "wherein the storing of data in the database includes storing the data in one of a real-time database and a data mart (Col. 5, 20-26, fig. 2).

For claim 19, this claim is rejected on grounds corresponding to the argument give above for rejected claim 15 above. Gloudeman teaches "coupling common components to the computer statements for implementing control logic of application definition data for communication support" (Col. 4, lines 25-57).

For claim 20, this claim is rejected on grounds corresponding to the argument give above for rejected claim 19 above. Gloudeman teaches "coupling the computer statements for implementing control logic of application definition data to another application through a Web-based component for communication over the Internet" (Col. 4, lines 12-24).

For claim 21, this claim is rejected on grounds corresponding to the argument give above for rejected claim 19 above. Gloudeman teaches "coupling the computer statements for implementing control logic of application definition data to another application through an operating system communication component for supporting application communication through the operating system" (Col. 4, lines 41-50).

For claim 22, this claim is rejected on grounds corresponding to the argument give above for rejected claim 21 above. Gloudeman teaches "wherein the operating system common component coupling includes coupling a Windows-based communication component to the computer statements for implementing control logic of application definition data" (Col. 4, lines 12-24).

For claim 23, this claim is rejected on grounds corresponding to the argument give above for rejected claim 20 above. Gloudeman teaches "wherein the communication through the web-based component over the Internet is through a customer web portal"(Col. 4, lines 12-24).

For claim 24, this claim is rejected on grounds corresponding to the argument give above for rejected claim 20 above. Gloudeman teaches "developing a file structure having components representative of a building system; and associating configuration data with the components identified in the file structure" (Col. 5, lines 27-34).

For claim 25, this claim is rejected on grounds corresponding to the argument give above for rejected claim 15 above. Gloudeman teaches coupling external data sources to the database" (Col. 4, lines 58-Col. 5, lines 1-9).

For claim 26, this claim is rejected on grounds corresponding to the argument give above for rejected claim 25 above. Gloudeman teaches "converting data from a native format for an external data source to one that is compatible with the database" (Col. 4, lines 6-11).

For claim 27, this claim is rejected on grounds corresponding to the argument give above for rejected claim 26 above. Gloudeman teaches "generating instructions for the database API to store the converted data in the database" (Col.5, lines 39-60).

For claim 28, this claim is rejected on grounds corresponding to the argument give above for rejected claim 27 above. Gloudeman teaches "interrogating, on a scheduled basis, a plurality of external data sources for data to be stored in the database" (Col. 4, lines 58-Col. 5, lines 9, Col. 5, lines 39-61).

Claim Rejections - 35 USC § 103

4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having

ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

5. Claims 4 and 18 are rejected under 35 U.S.C. 103(a) as being unpatentable over Gloudeman et al. (Patent No. 6,141, 595) hereinafter "Gloudeman" in the view of Bakalash et al. (Pub No. 2003/0229652) hereinafter "Bakalash".

For claims 4 and 18, these claims are rejected on grounds corresponding to the argument give above for rejected claims 3 and 17 above. Gloudeman does not explicitly teaches "the data mart being configured in one of a snowflake and star data organization". However, Bakalash teaches "the data mart being configured in one of a snowflake and star data organization" (see paragraph [0059-0060], [0073], fig. 18A&B)).

It would have been obvious to one of ordinary skill in the art the time of the invention to combine Gloudeman's teachings of database been comprised of real-time database with Bakalash's teachings of database being configured in a star schema, wherein datamart could also be a database and star schema is also a means of storing data based on a set of know database and database dimension. Star schema is well known in the art for organizing data, wherein real-time data store is a fast and effective way of retrieving data. Therefore combining Gloudeman's teachings with Backlash will enhance retrieving of building system data, faster when demanded by the user.

Response To Amendment

6. Applicant's arguments with respect to claims 1-28 have been considered but are moot in view of the new ground(s) of rejection.

CONCLUSION

7. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire **THREE MONTHS** from the mailing date of this action. In the event a first reply is filed within **TWO MONTHS** of the mailing date of this final action and the advisory action is not mailed until after the end of the **THREE-MONTH** shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than **SIX MONTHS** from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to OLUBUSOLA ONI whose telephone number is 571-272-2738. The examiner can normally be reached on 7.30-5.00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, TIM VO can be reached on 571-272-3642. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Art Unit: 2168

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.



KHANH B. PHAM
PRIMARY EXAMINER

OLUBUSOLA ONI
Examiner
Art Unit 2168